AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A liquid crystal television receiver which corrects optical

response characteristics of a liquid crystal panel by subjecting image data supplied to the liquid

crystal display panel to enhancing conversion at least in accordance with image data of a directly

previous vertical period and image data of a current vertical period,

the liquid crystal television receiver being capable of reproducing images based on image

data of more than one broadcasting standard,

the liquid crystal television receiver comprising:

a signal type detecting section for detecting whether input image data is a video signal of

a first broadcasting standard or a video signal of a second broadcasting standard, the video signal

of the first broadcasting standard being different, in terms of a vertical frequency, from the video

signal of the second broadcasting standard;

an enhancing conversion section for subjecting the input image data to enhancing

conversion in a direction of gray level transition;

a temperature sensor for detecting a temperature in the liquid crystal television receiver;

and

table memories that store enhancing conversion parameters that correspond to respective

temperatures in the liquid crystal television receiver and are specified by the image data of the

current vertical period and the image data of the directly previous vertical period,

the enhancing conversion section including an operation section that performs, using the

enhancing conversion parameter read out from the table memories, an operation on the image

data so as to enhance the image data, in accordance with a result of comparison between (i) a

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switching temperature determined by the result of the detection by the signal type detecting

section and (ii) the result of the detection by the temperature sensor.

2. (Currently Amended) A liquid crystal television receiver which corrects optical

response characteristics of a liquid crystal panel by subjecting image data supplied to the liquid

crystal display panel to enhancing conversion at least in accordance with image data of a directly

previous vertical period and image data of a current vertical period,

the liquid crystal television receiver being capable of reproducing images based on image

data of more than one broadcasting standard,

the liquid crystal television receiver comprising:

a signal type dectecting section for detecting whether input image data is a video signal

of a first broadcasting standard or a video signal of a second broadcasting standard, the video

signal of the first broadcasting standard being different, in terms of a vertical frequency, from the

video signal of the second broadcasting standard;

an enhancing conversion section for subjecting the input image data to enhancing

conversion in a direction of gray level transition;

a temperature sensor for detecting a temperature in the liquid crystal television receiver;

and

table memories that store enhancing conversion parameters that correspond to respective

temperatures in the liquid crystal television receiver and are specified by the image data of the

current vertical period and the image data of the directly previous vertical period,

at least one of the table memories being referable regardless of the signal type, and

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the enhancing conversion section subjecting the image data to the enhancing conversion,

using the enhancing conversion parameter read out from one of the table memories that is

selected and referred to in accordance with the result of detection by the signal type detecting

section and the result of detection by the temperature sensor.

3-6. (Cancelled)

7. (Currently Amended) A liquid crystal television receiver which corrects optical

response characteristics of a liquid crystal panel by subjecting image data supplied to the liquid

crystal display panel to enhancing conversion at least in accordance with image data of a directly

previous vertical period and image data of a current vertical period,

the liquid crystal television receiver being capable of reproducing images based on image

data of more than one broadcasting standard,

the liquid crystal television receiver comprising:

a signal type detecting section for detecting whether input image data is a video signal of

a first broadcasting standard or a video signal of a second broadcasting standard, the video signal

of the first broadcasting standard being different, in terms of a vertical frequency, from the video

signal of the second broadcasting standard;

an enhancing conversion section for subjecting the input image data to enhancing

conversion in a direction of gray level transition;

a temperature sensor for detecting a temperature in the liquid crystal television receiver;

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and

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a table memory that stores an enhancing conversion parameter specified by image data of

a current vertical period and image data of a directly previous vertical period,

the enhancing conversion section including:

an operation section that performs an operation on the image data so as to enhance the

image data, using the enhancing conversion parameter; and

a multiplying section that multiplies output data of the operation section by a coefficient

corresponding to the result of detection by the signal type detecting section and the result of

detection by the temperature sensor.

8. (Currently Amended) A liquid crystal television receiver which corrects optical

response characteristics of a liquid crystal panel by subjecting image data supplied to the liquid

crystal display panel to enhancing conversion at least in accordance with image data of a directly

previous vertical period and image data of a current vertical period,

the liquid crystal television receiver being capable of reproducing images based on image

data of more than one broadcasting standard,

the liquid crystal television receiver comprising:

a signal type detecting section for detecting whether input image data is a video signal of

a first broadcasting standard or a video signal of a second broadcasting standard, the video signal

of the first broadcasting standard being different, in terms of a vertical frequency, from the video

signal of the second broadcasting standard;

an enhancing conversion section for subjecting the input image data to enhancing

conversion in a direction of gray level transition;

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a temperature sensor for detecting a temperature in the liquid crystal television receiver;

a first table memory that stores an enhancing conversion parameter specified by the

image data of the current vertical period and the image data of the directly previous vertical

period, the first table memory being referred to when the input image data is the video signal of

the first broadcasting standard; and

a second table memory that stores an enhancing conversion parameter specified by the

image data of the current vertical period and the image data of the directly previous vertical

period, the second table memory being referred to when the input image data is the video signal

of the second broadcasting standard,

the enhancing conversion section including:

an operation section that performs, using the enhancing conversion parameter read out

from the first or second table memory in accordance with the result of the detection by the signal

type detecting section, an operation on the image data so as to enhance the image data; and

a multiplying section that multiplies output data of the operation section by a coefficient

corresponding to the result of detection by the temperature sensor.

9. (Currently Amended) A liquid crystal television receiver which corrects optical

response characteristics of a liquid crystal panel by subjecting image data supplied to the liquid

crystal display panel to enhancing conversion at least in accordance with image data of a directly

previous vertical period and image data of a current vertical period,

the liquid crystal television receiver being capable of reproducing images based on image

data of more than one broadcasting standard,

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the liquid crystal television receiver comprising:

a signal type detecting section for detecting whether input image data is a video signal of

a first broadcasting standard or a video signal of a second broadcasting standard, the video signal

of the first broadcasting standard being different, in terms of a vertical frequency, from the video

signal of the second broadcasting standard;

an enhancing conversion section for subjecting the input image data to enhancing

conversion in a direction of gray level transition;

a temperature sensor for detecting a temperature in the liquid crystal television receiver;

first table memories that store enhancing conversion parameters that correspond to

respective temperatures in the liquid crystal television receiver and are specified by the image

data of the current vertical period and the image data of the directly previous vertical period, the

first table memories being referred to when the input image data is the video signal of the first

broadcasting standard; and

second table memories that store enhancing conversion parameters that correspond to

respective temperatures in the liquid crystal television receiver and are specified by the image

data of the current vertical period and the image data of the directly previous vertical period, the

second table memories being referred to when the input image data is the video signal of the

second broadcasting standard,

the enhancing conversion section including an operation section that performs, using the

enhancing conversion parameter read out from one of the first and second table memories in

accordance with the result of the detection by the signal type detecting section and the result of

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the detection by the temperature sensor, an operation on the image data so as to enhance the

image data.

10. (Cancelled)

11. (Previously Presented) The liquid crystal television receiver as defined in claim 1,

further comprising a control device that controls switching and selection of the enhancing

conversion parameters,

the control device including:

an operation section that performs, on temperature data detected by the temperature

sensor, a predetermined operation corresponding to each signal type of the input image data;

a threshold discriminating section that compares the temperature data, which has been

subjected to the operation by the operation section, with predetermined threshold temperature

data; and

a control signal output section that generates a switching control signal with which the

enhancing conversion parameters are switched and controlled, in accordance with a result of

comparison by the threshold discriminating section.

12. (Previously Presented) The liquid crystal television receiver as defined in claim 1,

further comprising a control device that controls switching and selection of the enhancing

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conversion parameters,

the control device including:

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a threshold discriminating section that compares temperature data, which is detected by

the temperature sensor, with predetermined threshold temperature data; and

a control signal output section that generates a switching control signal with which the

enhancing conversion parameters are switched and controlled, in accordance with a result of

comparison by the threshold discriminating section.

13. (Previously Presented) A liquid crystal display control method for correcting optical

response characteristics of a liquid crystal display panel, by subjecting image data supplied to the

liquid crystal display panel to enhancing conversion at least in accordance with image data of a

directly previous vertical period and image data of a current vertical period,

the liquid crystal panel being capable of reproducing images based on image data of more

than one broadcasting standard,

the method comprising the steps of:

(i) detecting whether a signal type of input image data is a video signal of a first

broadcasting standard or a video signal of a second broadcasting standard, the video signal of the

first broadcasting standard being different, in terms of a vertical frequency, from the video signal

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of the second broadcasting standard;

(ii) subjecting the image data to the enhancing conversion in a direction of gray level

transition;

(iii) detecting a temperature in an apparatus;

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(iv) referring to table memories that store enhancing conversion parameters that

correspond to respective temperatures in the apparatus and are specified by the image data of the

current vertical period and the image data of the directly previous vertical period; and

(v) in accordance with a comparison between a switching temperature determined by the

signal type detected in the step (i) and the temperature detected in the step (iii), performing an

operation on the image data so as to enhance the image data, using the enhancing conversion

parameter read out from one of the table memories.

14. (Previously Presented) A liquid crystal display control method for correcting optical

response characteristics of a liquid crystal display panel, by subjecting image data supplied to the

liquid crystal display panel to enhancing conversion at least in accordance with image data of a

directly previous vertical period and image data of a current vertical period,

the liquid crystal panel being capable of reproducing images based on image data of more

than one broadcasting standard,

the method comprising the steps of:

(i) detecting whether a signal type of input image data is a video signal of a first

broadcasting standard or a video signal of a second broadcasting standard, the video signal of the

first broadcasting standard being different, in terms of a vertical frequency, from the video signal

of the second broadcasting standard;

(ii) subjecting the image data to the enhancing conversion in a direction of gray level

transition; and

(iii) detecting a temperature in an apparatus,

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in the step (ii), the image data being subjected to the enhancing conversion, using an

enhancing conversion parameter read out from one of table memories that is selected and

referred to in accordance with the result of detection in the step (i) and the result of detection in

the step (iii), the table memories storing enhancing conversion parameters that correspond to

respective temperatures in the apparatus and are specified by the image data of the current

vertical period and the image data of the directly previous vertical period, and at least one of the

table memories being referable regardless of the signal type.

15-16. (Cancelled)

17. (Previously Presented) A liquid crystal display control method for correcting optical

response characteristics of a liquid crystal display panel, by subjecting image data supplied to the

liquid crystal display panel to enhancing conversion at least in accordance with image data of a

directly previous vertical period and image data of a current vertical period,

the liquid crystal panel being capable of reproducing images based on image data of more

than one broadcasting standard,

the method comprising the steps of:

(i) detecting whether a signal type of input image data is a video signal of a first

broadcasting standard or a video signal of a second broadcasting standard, the video signal of the

first broadcasting standard being different, in terms of a vertical frequency, from the video signal

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of the second broadcasting standard;

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(ii) subjecting the image data to the enhancing conversion in a direction of gray level

transition;

(iii) detecting a temperature in an apparatus;

(iv) referring to a table memory that stores an enhancing conversion parameter specified

by the image data of the directly previous vertical period and the image data of the current

vertical period;

(v) performing an operation on the image data so as to enhance the image data, using the

enhancing conversion parameter; and

(vi) multiplying output data as a result of the step (v) by a coefficient corresponding to

the signal type detected in the step (i) and the temperature detected in the step (iii).

18. (Previously Presented) A liquid crystal display control method for correcting optical

response characteristics of a liquid crystal display panel, by subjecting image data supplied to the

liquid crystal display panel to enhancing conversion at least in accordance with image data of a

directly previous vertical period and image data of a current vertical period,

the liquid crystal panel being capable of reproducing images based on image data of more

than one broadcasting standard,

the method comprising the steps of:

(i) detecting whether a signal type of input image data is a video signal of a first

broadcasting standard or a video signal of a second broadcasting standard, the video signal of the

first broadcasting standard being different, in terms of a vertical frequency, from the video signal

of the second broadcasting standard;

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(ii) subjecting the image data to the enhancing conversion in a direction of gray level

transition;

(iii) detecting a temperature in an apparatus;

(iv) referring to first table memory that stores an enhancing conversion parameter

specified by the image data of the current vertical period and the image data of the directly

previous vertical period, the first table memory being referred to in a case where the input image

data is the video signal of the first broadcasting standard;

(v) referring to second table memory that stores an enhancing conversion parameter

specified by the image data of the current vertical period and the image data of the directly

previous vertical period, the second table memory being referred to in a case where the input

image data is the video signal of the second broadcasting standard;

(vi) in accordance with the signal type detected in the step (i), performing an operation on

the image data so as to enhance the image data, using the enhancing conversion parameter read

out from the first or second table memory; and

(vii) multiplying output data as a result of the step (vi) by a coefficient corresponding to

each temperature detected in the step (iii).

19. (Previously Presented) A liquid crystal display control method for correcting optical

response characteristics of a liquid crystal display panel, by subjecting image data supplied to the

liquid crystal display panel to enhancing conversion at least in accordance with image data of a

directly previous vertical period and image data of a current vertical period,

the liquid crystal panel being capable of reproducing images based on image data of more

than one broadcasting standard,

the method comprising the steps of:

(i) detecting whether a signal type of input image data is a video signal of a first

broadcasting standard or a video signal of a second broadcasting standard, the video signal of the

first broadcasting standard being different, in terms of a vertical frequency, from the video signal

of the second broadcasting standard;

(ii) subjecting the image data to the enhancing conversion in a direction of gray level

transition:

(iii) detecting a temperature in an apparatus;

(iv) referring to first table memories that store enhancing conversion parameters that

correspond to respective temperatures in the apparatus and are specified by the image data of the

current vertical period and the image data of the directly previous vertical period, the first table

memories being referred to in a case where the input image data is the video signal of the first

broadcasting standard;

(v) referring to second table memories that store enhancing conversion parameters that

correspond to respective temperatures in the apparatus and are specified by the image data of the

current vertical period and the image data of the directly previous vertical period, the second

table memories being referred to in a case where the input image data is the video signal of the

second broadcasting standard; and

(vi) in accordance with the signal type detected in the step (i) and the temperature

detected in the step (iii), performing an operation on the image data so as to enhance the image

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data, using the enhancing conversion parameter read out from one of the first and second table

memories.

20. (Cancelled)

21. (Previously Presented) The method as defined in claim 13, further comprising the

steps of:

(vi) performing, on temperature data corresponding to the temperature detected in the

step (iii), a predetermined operation corresponding to each signal type of the input image data;

(vii) comparing the temperature after being subjected to the predetermined operation with

predetermined threshold temperature data; and

(viii) in accordance with the comparison in the step (vii), generating a switching control

signal for switching and controlling the enhancing conversion parameters.

22. (Previously Presented) The method as defined in claim 13, further comprising the

steps of:

(vi) comparing temperature data corresponding to the temperature detected in the step

(iii) with predetermined threshold temperature data corresponding to each signal type of the

input image data; and

(vii) in accordance with the comparison in the step (vi), generating a switching control

signal for switching and controlling the enhancing conversion parameters.

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23. (Cancelled)

24. (Previously Presented) A recording medium recording a program for a computer that

controls a liquid crystal television receiver capable of reproducing images based on image data

of more than one broadcasting standards, the liquid crystal television receiver correcting optical

response characteristics of a liquid crystal display panel by performing an enhancing conversion

of image data supplied to the liquid crystal display panel, in accordance with image data of a

directly previous vertical period and image data of a current vertical period, in such a manner as

to causing the liquid crystal panel to have a transmittance specified by the image data, within a

predetermined period of time,

the program causing the computer to perform the steps defined in claim 13.